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## Light meson decay constants from Möbius domain-wall fermions on gradient flowed HISQ ensembles

*Thursday, August 3, 2023 4:00 PM (20 minutes)*

We update our previous results and also determine  $F_K$  and  $F_\pi$  separately using Möbius domain-wall fermions computed on gradient-flowed  $N_f = 2 + 1 + 1$  highly-improved staggered sea-quark ensembles. We use five values of the pion mass ranging from  $130 \leq m_\pi \leq 400$  MeV, four lattice spacings of a  $\sim 0.15, 0.12, 0.09, 0.06$  fm and multiple lattice volumes. The physical point, continuum, and finite-volume extrapolations are performed with relevant mixed-action effective field theory expressions.

### Topical area

Quark and Lepton Flavor Physics

**Primary authors:** NICHOLSON, Amy (University of North Carolina at Chapel Hill); WALKER-LOUD, Andre (Lawrence Berkeley National Laboratory); HOWARTH, Dean (Lawrence Berkeley National Laboratory); MONGE-CAMACHO, Henry (ORNL); CLARK, Kate (NVIDIA); MILLER, Nolan (Johannes Gutenberg University Mainz); VRANAS, Pavlos (Lawrence Livermore National Laboratory); HALL, Zack (UNC-CH/LBNL)

**Presenter:** HALL, Zack (UNC-CH/LBNL)

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